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PCT		
101	International Application	on No
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REQUEST	International Filing Da	te
The undersigned requests that the present international application be processed		
according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT International Application"
	Applicant's or agent's f (if desired) (12 charact	ile reference lers maximum) 20912-096805
Box No. I TITLE OF INVENTION FRAME INTEGRATED REAR SUSPENSION		
Box No. II APPLICANT	on is also inventor	
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of reside.	the address indicated in this	Telephone No. 905-726-7015
MAGNA INTERNATIONAL INC.		Facsimile No.
337 Magna Drive Aurora, Ontario L4G 7K1	1	905-726-7173
CANADA		Teleprinter No.
	}	Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country	of residence:
CANADA	CANADA CANADA	y of residence.
		he United States Indicated in the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FU	JRTHER) INVENTOR	R(S)
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	the address indicated in this	This person is:
IMRE, Christian	,	applicant only
529 Jacob Way 205 Rochester, Michigan 48307		applicant and inventor
•		inventor only (If this check-box is marked, do not fill in below.)
•	ŀ	Applicant's registration No. with the Office
State (that is, country) of nationality: AUSTRIA	State (that is, country) US) of residence:
		he United States indicated in the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicate	d on a continuation shee	et.
Box No. IV AGENT OR COMMON REPRESENTAT	IVE; OR ADDRESS F	OR CORRESPONDENCE
The person identified below is hereby/has been appointed to a the applicant(s) before the competent International Authorities	s as:	gent common representative
Name and address: (Family name followed by given name: for a legal entity, The address must include postal code and name of cour	remail:	Telephone No. 313-965-8667
SIMONELLI, David J. Clark Hill PLC	1	Facsimile No.
500 Woodward Avenue, Suite 3500 Detroit, MI 48226-3435	H	313-965-8252 Teleprinter No.
US		
	, [Agent's registration No. with the Office
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Address for correspondence: Mark this check-box who the space above is used instead to indicate a special add		

Continuation of Box No. III FURTHER APPLICANT(S) If none of the following sub-boxes is used, this sheet should no	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence O'CONNOR, James P. 3133 Sandoval Drive Lake Oriion, Michigan 48360	y, full official designation. This person is:
State (that is, country) of nationality: US	State (that is, country) of residence: US
This person is all designated all designated applicant States United States	States except the interest of America of America only in the States indicated in the Supplemental
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence GABBIANELLI, Gianfranco 1667 Picadilly Troy, Michigan 48084	ne address indicated in this
State (that is, country) of nationality: CANADA	State (that is, country) of residence: US
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Further applicants and/or (further) inventors are indicated	ed on another continuation sheet.

Supplemental Box If the Supplemental Box is not used, this sheet should not be included in the request.

- I. If, in any of the Boxes, except Boxes Nos VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No..." (indicate the number of the Box and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
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- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Box No. III" or be, indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. VI, there are more than three earlier (v) applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box VI.
- If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such a case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition," the number of the parent application or parent patent or other patent grant and the date of grant of the parent patent or other patent grant or the date of filing of parent application (Rules 4.11(a)(iii) and 49bis.1(a) or (b)).
- If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such a case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(iv) and 49.bis.1(d)).

Con't. of Box IV: ASHER, Robin W., Reg. No. 41,590 PARANJPE, Jay S., Reg. No. 45,486 MACKENZIE, Kevin S., Reg. No. 45,639

Sheet	Na		,	4		

Box No.V DESIGNAT		·		
The filing of this request c international filing date, for and national patents.	onstitutes under Rule 4.9(r the grant of every kind of p	a), the designation of al protection available and,	I Contracting States be where applicable, for the	ound by the PCT on the ne grant of both regional
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to the consequences of such	h national law provisions in	these and certain other S	States.)	
Box No. VI PRIORITY C		<u> </u>		
The priority of the following	ng carlier application(s) is he		 	
Filing date	Number	Wi	nere earlier application	is:
of earler application (day/month/year)	of earlier application	national application: country or Member	regional application:* regional Office	international application: receiving Office
item (1) 28JUL2003 07/28/2003	60/490,498	us		
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Further priority claim	s are indicated in the Supple	emental Box.		
The receiving Office is application(s) (only if the is the receiving Office) ide	requested to prepare and earlier application was filed entified above as:	transmit to the Interna If with the Office which for	tional Bureau a certifor the purposes of this	fied copy of the earlier international application
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Box No. VIII (i)	Declaration as to the ide	entity of the inventor		:
Box No. VIII (ii)		plicant's entitlement, as a	t the international	:
Box No. VIII (iii)	Declaration as to the ap filing date, to claim the	plicant's entitlement, as a priority of the earlier app	t the international dication	:
Box No. VIII (iv)	Declaration of inventor of the United States of A	ship (only for the purpose America)	es of the designation	· :
Box No. VIII (v)	Declaration as to non-p	rejudicial disclosures or o	exceptions to lack of no	ovelty:

Dan No IV CUECK LIST, LANCHACE	OF BILLING	
Box No. IX CHECK LIST; LANGUAGE	OF FILING	
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the followitem(s) (mark the applicable check-boxes below and indicating the column the number of each item):	
request (including	1. 🛮 fee calculation sheet	_: 1
declaration sheets) : 5	2. 🛮 original separate power of attorney	: 3
description (excluding	3. 🛮 original general power of attorney	: 1
sequence listing and/or tables related thereto) : 5	4. copy of general power of attorney; reference numb	•
claims : 1	any:	
abstract : 1	5. statement explaining lack of signature	:
drawings : 4	6. priority document(s) identified in Box No. VI as	
Sub-total number of sheets 16	item(s):	:
sequence listing :	7. translation of international application into (language):	:
tables related thereto : (for both, actual number	8. separate indications concerning deposited microorg other biological material	ganism or :
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(Section 80 ſ(a)(i)) (i) □ sequence listing	(iii) together with relevant statement as to the identity or copies with the sequence listing mentioned in le	of the copy
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Figure of the drawings which should accompany the abstract:	Language of filing of the international application:	· · · · · ·
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	ing and the capacity in which the person signs (if such capacity is not obvious)	from reading the request).
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SIMONELLI, David J., Reg. No. 36,680		
Clark Hill PLC		
500 Woodward Avenue, Suite 3500		
Detroit, Michigan 48226-3435 US		
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Date of actual receipt of the purported international application:	}	2. Drawings:
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 Corrected date of actual receipt due to later timely received papers or drawings comple purported international application: 	but ting the	
Date of timely receipt of the required corrections under PCT Article 11(2):		not received:
5. International Searching Authority (if two or more are competent): ISA/	6. Transmittal of search copy delayed until search fee is paid	
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PATENT COOPERATION TREATY

	n the ERNATIONAL SEA	ARCHING AUTH	IORITY		JA.	
То	· ·				PCT	
	see form	PCT/ISA/220		INTERNATIO	TTEN OPINION OF THE NAL SEARCHING AUTHORIT PCT Rule 43 <i>bis</i> .1)	ΓY
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	rnational application T/US2004/02571		International filing date (c 28.07.2004	day/month/year)	Priority date (day/month/year) 28.07.2003	
Inter B60	rnational Patent Clas 0G3/24, B60G9/0	sification (IPC) or 02, B60G7/00, E	both national classification : 360K17/16	and IPC	`	
	icant GNA INTERNAT	FIONAL, INC.				
1.	This opinion co	ontains indication	ons relating to the follo	owing items:		
	Box No. I	Basis of the op	inlon			
	Box No. II	Priority				
	☐ Box No. III	Non-establishn	nent of opinion with rega	rd to novelty, inventi	ve step and industrial applicability	
	☐ Box No. IV	Lack of unity of		•		
ı	☑ Box No. V	Reasoned state applicability; cli	ement under Rule 43 <i>bi</i> s. tations and explanations	.1(a)(i) with regard to supporting such sta	novelty, inventive step or industrial tement	
	☐ Box No. VI	Certain docume	ents cited			1
	Box No. VII		in the international appl			
	☐ Box No. VIII	Certain observa	ations on the internation	al application		
2.	FURTHER ACT	ON				į
	written opinion o the applicant cho	f the Internationa oses an Authori eau under Rule	al Preliminary Examining ty other than this one to	Authority ("IPEA"). I be the IPEA and the	usually be considered to be a However, this does not apply where chosen IPEA has notifed the tional Searching Authority	
	submit to the IPE	EA a written reply date of mailing o	together, where approp	oriate, with amendme	IPEA, the applicant is invited to ints, before the expiration of three of 22 months from the priority date,	i
	For further option	ns, see Form PC	T/ISA/220.			
3.	For further detail	s, see notes to F	form PCT/ISA/220.			
Name	e and mailing address	ss of the ISA:		Authorized Officer		f

Tsitsilonis, L

Telephone No. +31 70 340-2879

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswljk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/025719

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_	В	ox N	o. I Basis of the opinion
1.	W th	ith re e lar	egard to the language, this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.
		la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2.	W ne	ith re ces	egard to any nucleotide and/or amino acld sequence disclosed in the international application and early to the claimed invention, this opinion has been established on the basis of:
	a.	type	of material:
			a sequence listing
			table(s) related to the sequence listing
	b.	form	at of material:
			in written format
			in computer readable form
	c.	time	of filing/furnishing:
			contained in the international application as filed.
			filed together with the international application in computer readable form.
			furnished subsequently to this Authority for the purposes of search.
3.	0	na	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional bies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4.	Ad	ditio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/025719

Box N	o. II Priority			
i. 🖾 Ti	ne following document t	nas not bee	n furnishe	d:
		r application	n whose pr	riority has been claimed (Rule 43bis.1 and 66.7(a)).
	☐ translation of the	earlier appl	ication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).
				ider the validity of the priority claim. This opinion has tion that the relevant date is the claimed priority date.
2. 🗆 Ti	nis opinion has been es	tablished as	s if no prior	rity had been claimed due to the fact that the priority claim 1). Thus for the purposes of this opinion, the international
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see separate sheet

Re Item V.

- 1 The following document is referred to in this communication:
 - D1: WO 96/00661 A (SJOESTEN KJELL; VOLVO AB (SE); ZETTERSTROEM SIGVARD (SE)) 11 January 1996 (1996-01-11)
 - D2: US-A-3 147 815 (ZORA ARKUS-DUNTOV ET AL) 8 September 1964 (1964-09-08)
 - D3: PATENT ABSTRACTS OF JAPAN vol. 0184, no. 24 (M-1652), 9 August 1994 (1994-08-09) -& JP 6 127231 A (MAZDA MOTOR CORP), 10 May 1994 (1994-05-10)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

Document D1 discloses (see figures; the references in parenthesis applying to this document):

An integrated rear suspension assembly fixedly securable to a transmission case (4), rear wheel carriers (16) and frame rails of a motor vehicle (i.e. vehicle undercarriage; see page 3, lines 38-39), said integrated rear suspension assembly comprising:

- a plurality of trailing arms (18) having first and second ends, each of said first ends secured to one of the frame rails (see page 4, lines 9-12) and each of the second ends secured to each of the rear wheel carriers (15,16);
- a plurality of control arms(12,13,14) pivotally secured to each of said rear wheel carriers (16);
- a compound link member (24) having opposing ends attached to each of said plurality of trailing arms (18,22); and
- a transmission cross member (1,2,3) fixedly secured to the vehicle undercarriage, said transmission cross member including fixtures (see figures) to receive and secure the transmission case (see page 3, lines 28-34) and each of the said plurality of control arms (12,13,14) thereto such that said transmission cross member (1,2,3) facilitates said integrated rear suspension assembly and the transmission case (4) to be assembled prior to securing said integrated suspension assembly to the frame rails (i.e. vehicle undercarriage).

- 2,2 The subject matter of claim 1 therefore differs from this known integrated rear suspension assembly in that it refers to a suspension arrangement where the plurality of control arms are pivotally secured to each of the plurality of trailing arms instead of being pivotally secured to each of the rear whell carriers.
- 2.3 The problem to be solved by the present invention may be regarded as simply constructing an integrated rear suspension assembly for a very similar independent suspension arrangement where one end of each of the plurality of trailing arms forms the wheel carrier.
- 2.4 Such a suspension arrangement where one end of each of the plurality of trailing arms forms the wheel carrier, is well known in the field of vehicle suspensions (see for example document D2). Since the features of independent claim1 have already been employed for the same purpose in the similar integrated rear suspension assembly disclosed in document D1, it would therefore be obvious to the person skilled in the art, to apply these features with corresponding effect to a rear suspension assembly according to document D2, thereby arriving at an integrated rear suspension assembly according to claim 1.

3 DEPENDENT CLAIMS 2.3

Dependent claim 2,3 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT with respect to inventive step (Article 33(3) PCT), in particular:

- the features of claim 2 are disclosed in document D1 (see page 3, lines 28-34) or in document D2 (see figure 1).
- the features of claim 3, although they are not directly related to the proposed suspension arrangement, it is however disclosed in document D3 (see figure 3).

4 CONCLUSION

For the reasons given above, claims 1 to 3 of the present application lack of inventive step (Article 33(3)PCT).